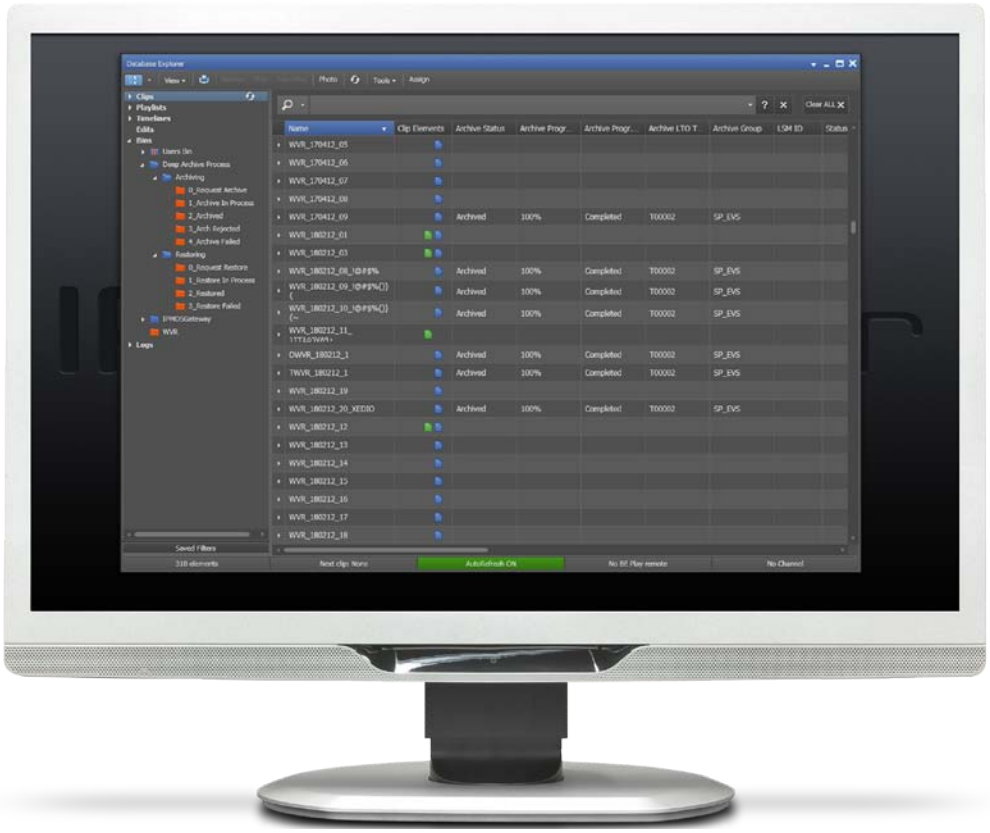
CONFIGURATION MANUAL
Tape Storage Controller

Version 4.3 - July 2013



IP2Archive

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Regional Contacts

The address and phone number of the EVS headquarters are usually mentioned in the Help > About menu in the user interface.

You will find the full list of addresses and phone numbers of local offices either at the end of this user manual (for manuals on hardware products) or at the following page on the EVS website: http://www.evs.com/contacts.

User Manuals on EVS Website

The latest version of the user manual, if any, and other user manuals on EVS products can be found on the EVS download center, on the following webpage: http://www.evs.com/downloadcenter.

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What's New

In the Configuration Manual of the Tape Storage Controller the icon

has been added on the left margin to highlight information on new and updated features.

The changes linked to new features in version 4.3.9.0 are listed below.

Certain settings can only be configured in the Configurator.

Multiple timecode support

- See section "Multiple Timecode Support" on page 2.

FlashNet support

- See section "FlashNet Tab" on page 25.

Report error if tape is not inserted setting added

- See section "DIVA Tab" on page 20.

Host Platform name can be enabled or disabled

- See section "ADA Tab" on page 23.

1. About the Application

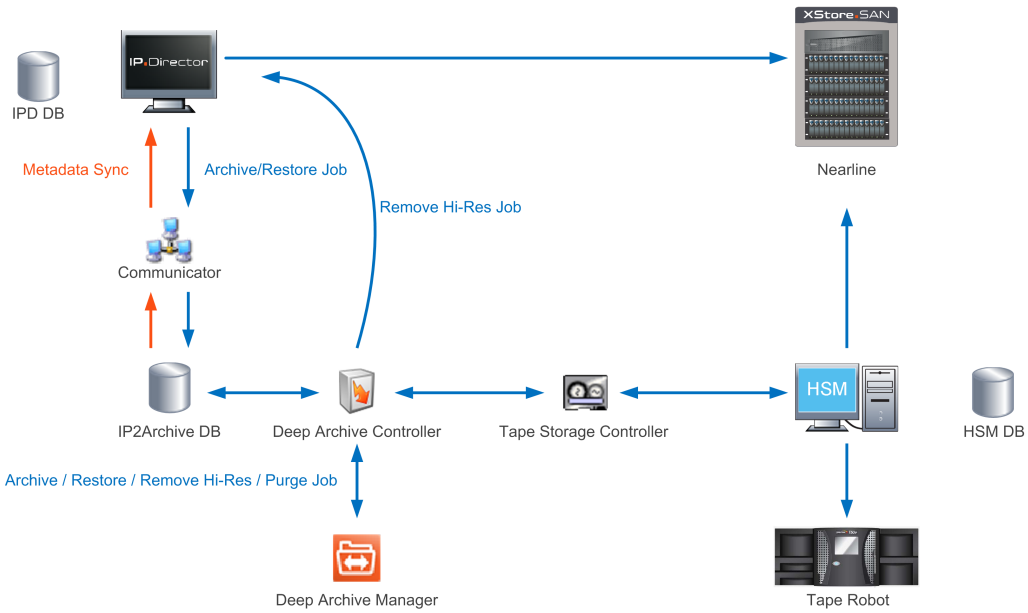
General Description

Tape Storage Controller is an automated application or robot that interacts with the hierarchical storage management system to drive all the archive, (partial) restore and purge requests originating from the Deep Archive Controller.

Tape Storage Controller interfaces with the following HSM systems: Atempo's Digital Archive, SGL's FlashNet, Front Porch Digital's DIVArchive.

Workflow

The diagram below shows the interactions between IPDirector and the various IP2Archive software components, and between the various IP2Archive software components and the HSM system. When IP2Archive interfaces with XenData's Digital Archive, Tape Storage Controller is replaced by File Transfer Daemon.



2. Multiple Timecode Support

NEW ! The application supports the following SMPTE timecodes:

- PAL
- NTSC non-drop frame
- NTSC drop frame

3. Starting the Application

3.1. After Installation

Double-click the Tape Storage Controller icon on the desktop of the application server to start the application. You can also start the application by double-clicking the executable file (.exe) in the installation folder.

The splash screen appears.

The application logs into the database. Then, the Settings window appears allowing you to configure the application.

See section "Settings Window" on page 7.

3.2. After Configuration

Double-click the Tape Storage Controller icon on the desktop of the application server to start the application. You can also start the application by double-clicking the executable file (.exe) in the installation folder.

The splash screen appears. The application logs into the database.

Then, the main window opens. After a time interval defined in the settings, the application automatically starts performing its various tasks.

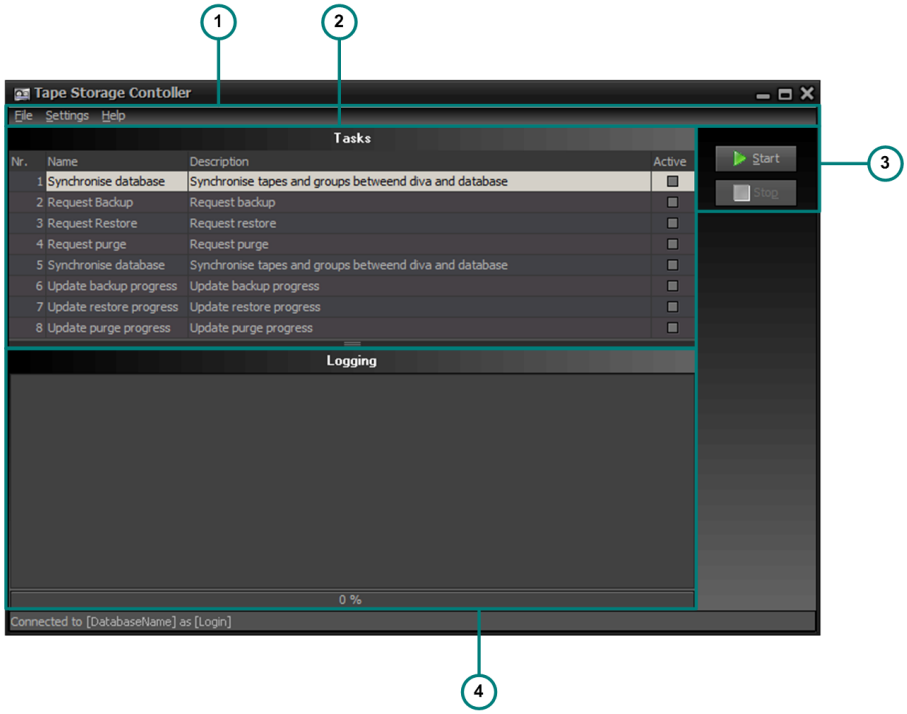
3.3. Main Window Overview

General Description

The main window displays the active and non-active tasks of the application. It allows you to monitor the tasks that are being performed. It also allows you to manually start and stop the application or a particular task.

Illustration

The main window contains the areas highlighted on the screenshot below:


1
2
Tape Storage Contoller
File Settings Help
Tasks
Nr. Name Description Active
1 Synchronise database Synchronise tapes and groups betweend diva and database
2 Request Backup Request backup
3 Request Restore Request restore
4 Request purge Request purge
5 Synchronise database Synchronise tapes and groups betweend diva and database
6 Update backup progress Update backup progress
7 Update restore progress Update restore progress
8 Update purge progress Update purge progress
Start
Stop
3
Logging
0 %
Connected to [DatabaseName] as [Login]
4

Area Description

The table below describes the various parts of the main window:

Part	Name	Description
1.	Menu bar	The menu bar contains three menus: **File**, **Settings** and **Help**.

Part	Name	Description
2.	Tasks pane	The Tasks pane contains the name and a brief description of the tasks performed by the application. Only the tasks that were activated by you in the System settings will be performed at start-up. If you want to manually run certain tasks for test purposes, you have to stop the application, select the corresponding check box in the **Active** column, and then click the **Start** button. This button only becomes available after you have clicked the **Stop** button.
3.	Start/Stop buttons	These buttons are used to manually start and stop the application.
4.	Log pane	The Log pane lists application events (= logs) and can be useful. The date and time of each event is displayed. These logs are also saved in the log files.

Menu Bar

The menu bar contains three menus: **File**, **Settings** and **Help**.

The **File** menu contains only one command: **Exit**. It is used to exit the application. Click the **File** menu or use the keyboard shortcut keys **ALT** + **F** or **F10** + **F** to open it. Click **Exit** or use the keyboard shortcut key **X** to exit the application.

The **Settings** menu doesn't contain any commands. It immediately gives access to the application settings. Click the **Settings** menu or use the keyboard shortcut keys **ALT** + **S** or **F10** + **S** to access the settings.

The **Help** menu contains only one command: **About**.

With the **About** command the application splash screen can be opened. The splash screen displays the application software version, the name of the database the application is logged on to and the login name used.

Click the **Help** menu or use the keyboard shortcut keys **ALT** + **H** or **F10** + **H** to open it.

Click **About** or use the keyboard shortcut key **A** to open the splash screen.

These menus only become available after you have clicked the **Stop** button.

3.4. Overview Tasks

The table below gives a brief description of the tasks performed by Tape Storage Controller.

Number	Task	Description
1	Synchronize Database	Searches in the DIVArchive database for the number of groups and LTO tapes present in the LTO tape library and synchronizes this with the IP2Archive database. This task does not apply to ADA and Flashnet.
2	Request Backup	Checks the IP2Archive database for archive requests and commands the HSM to start the archiving process.
3	Request Restore	Checks the IP2Archive database for restore requests and commands the HSM to start the restore process.
4	Request Purge	Checks the IP2Archive database for purge requests and commands the HSM to start the purge process.
5	Synchronize Database	Searches in the DIVArchive database for the number of groups and LTO tapes present in the LTO tape library and synchronizes this with the IP2Archive database. This task does not apply to ADA and FlashNet.
6	Update Backup Progress	Checks the status and progress of the archive jobs and synchronizes this information with the IP2Archive database.
7	Update Restore Progress	Checks the status and progress of the restore jobs and synchronizes this information with the IP2Archive database.
8	Update Purge Progress	Checks the status and progress of the purge jobs and synchronizes this information with the IP2Archive database.

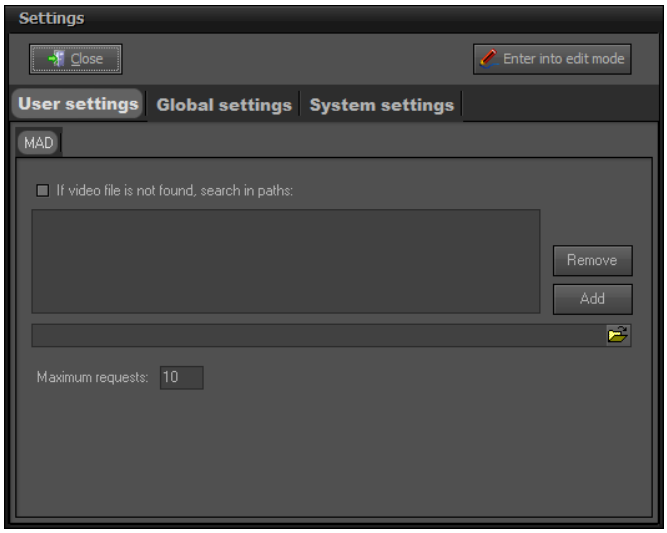
Note
For performance reasons, two or more instances of the Tape Storage Controller can be installed. Each instance can be configured to perform only a specific set of the tasks mentioned above. For example, there could be an instance that only performs the archive and purge tasks, and an instance that only performs the restore tasks.

4. Configuring the Application

4.1. Settings Window

Opening the Settings Window

The Settings window allows you to configure your application. The first time the application is launched after it has been installed, the Settings window opens automatically.



The Settings window can also be accessed through the **Settings** menu in the main window. To make this menu available, click the **Stop** button. The application will stop performing its tasks.

Overview Setup Categories

The settings can be divided into three setup categories. In the Settings window, a tab is provided for each setup category. The table below briefly describes each setup category:

Setup Category	Description
User Settings	These settings can be configured by each individual user.
Global Settings	These settings can only be configured by the system administrator and by an eventual superuser.
System Settings	These settings configure the general functioning of the application. They can only be configured by the system administrator.

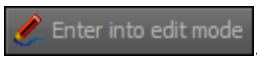
Currently, only the User Settings and System Settings tab contain settings. The Global Settings tab is still empty. It does not contain any settings.

Certain settings are read-only and cannot be configured. These can only be modified in the Configurator application. Other settings have to be configured locally.

Edit Mode

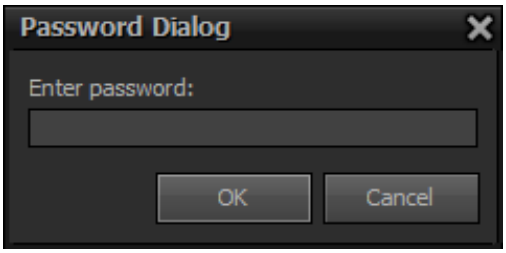
To be able to edit the Global and/or System settings, you first have to enter a password.

To put the Settings window into Edit Mode, proceed as follows:

1. Click the **Enter Into Edit Mode** button 

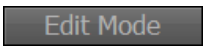
.

   A dialog box appears.



2. Enter the administrator password and then click **OK**.

   The Settings window enters into Edit Mode.



4.2. User Settings

4.2.1. Overview User Settings Subcategories

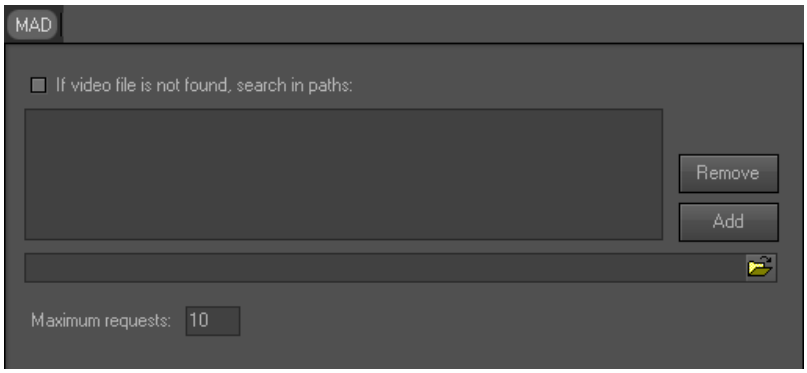
The User settings are divided into the following subcategories:

- MAD

For each subcategory a tab is provided.

4.2.2. MAD Tab

The MAD tab allows you to specify one or more folders where the HSM system has to look for a video file if it can't find it on the nearline storage. It also enables you to specify the maximum number of archive or restore requests that can be treated simultaneously by the HSM system.



Specifying Alternative Storage Folders

If you select the check box **If Video File Is Not Found, Search in Paths**, you can add one or more paths of storage folders the HSM system has to look for video files if it does not find them on the nearline storage. By default, this check box is not selected.

To add a folder, enter the path of the desired storage folder or browse for the folder by clicking . Click the **Add** button to add the folder to the list.

To remove a folder, select it from the list and click the **Remove** button.

Specifying Maximum Number of Archive and Restore Requests

In the **Maximum Requests** field you can enter the maximum number of archive or restore requests that can simultaneously be processed by the HSM system. The HSM system will wait until one of these requests has been processed before starting a new request. By default, it is set to 10.

4.3. System Settings

4.3.1. Overview System Settings Subcategories

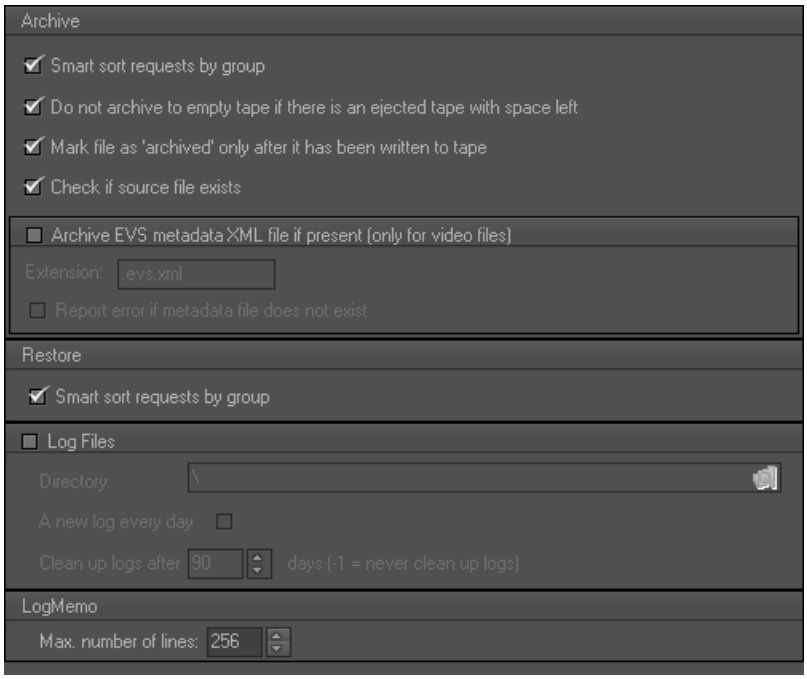
The System settings are divided into the following subcategories:

- Directories
- MAD Options
- Oracle Connection
- E-Mail Options
- Timers
- Tasks
- Global Password
- Error Handling
- HSMs
- DIVA
- FlashNet
- ADA

For each subcategory a tab is provided. The Directories tab is empty. It doesn't contain any settings.

4.3.2. MAD Options Tab

The MAD Options tab allows you to configure the log file management, and the archive and restore process.


Archive
Smart sort requests by group
Do not archive to empty tape if there is an ejected tape with space left
Mark file as 'archived' only after it has been written to tape
Check if source file exists
Archive EVS metadata XML file if present (only for video files)
Extension: .evs.xml
Report error if metadata file does not exist
Restore
Smart sort requests by group
Log Files
Directory: \
A new log every day
Clean up logs after 90 days (-1 = never clean up logs)
LogMemo
Max. number of lines: 256

Configuring the Archive Process

If the setting **Smart Sort Requests by Group** is enabled, Tape Storage Controller will command DIVArchive Manager to sort all archive requests by group. When requests of the same group are processed sequentially, the tape robot won't have to change tapes that often. However, the priority level of the files won't be considered then. This setting can be disabled in case there are multiple DIVArchive actors and requests of different groups can be processed simultaneously. This setting does not apply when Tape Storage Controller interfaces with the Atempo Digital Archive and SGL FlashNet. By default, this setting is selected.

If the setting **Do Not Archive to Empty Tape If There Is an Ejected Tape With Space Left** is enabled, Tape Storage Controller will command the hierarchical storage management system to first check the LTO tape library for ejected tapes with space left before archiving files. If there are ejected tapes with space left, the hierarchical storage management system will wait until one of these tapes is available again in the LTO tape library to archive the files. If there are no ejected tapes with space left, the files will be archived to an empty tape that is present in the LTO tape library. If this setting is disabled, this check is not performed. By default, this setting is selected.

If the setting **Mark File as 'Archived' Only After It Has Been Written to Tape** is enabled, Tape Storage Controller will wait to mark a file as being archived in the IP2Archive database until the file has been written to LTO tape. In the Deep Archive Manager GUI the file will then be moved to the Archived tab only after the file has been written to LTO tape. By default, this setting is selected.

If the setting **Check if Source File Exists** is enabled, Tape Storage Controller will first check if the file to be archived really exists. If the file doesn't exist, it will not start the archive process. Clear this setting if Tape Storage Controller has no access to the storage location of the source file. By default, this setting is selected.

If the setting **Archive EVS Metadata XML File If Present** is selected, Tape Storage Controller will command the hierarchical storage management system to also archive the EVS metadata XML file. In the **Extension** field you have to enter the default extension of the EVS metadata XML file, i.e. .evs.xml. This will prevent the hierarchical storage management system from archiving other types of XML files. By default, this setting is not selected.

If the setting **Report Error If Metadata File Does Not Exist** is not selected and no metadata file is found, only the video file is archived. If the setting is selected and no metadata file is found, the archive process will go into error. By default, this setting is not selected.

Configuring the Restore Process

If the setting **Smart Sort Requests by Group** is enabled, Tape Storage Controller will command DIVArchive Manager to sort all restore requests by group. When requests of the same group are processed sequentially, the tape robot won't have to change tapes that often. However, the priority level of the files won't be considered then. This setting can be disabled in case there are multiple DIVArchive actors and requests of different groups can be processed simultaneously. This setting does not apply when Tape Storage Controller interfaces with the Atempo Digital Archive and SGL FlashNet. By default, this setting is selected.

Configuring the Log File Management

To be able to configure the log file management, you have to select the **Log Files** check box.

In the **Directory** field you can enter the path of the log storage directory or you can browse for it by clicking . By default, the logs will be saved in the directory: C:\EVSLogs\MAD\[Application name].

If the **A New Log Every Day** check box is selected, a new log file is started every day. By default, this option is not selected.

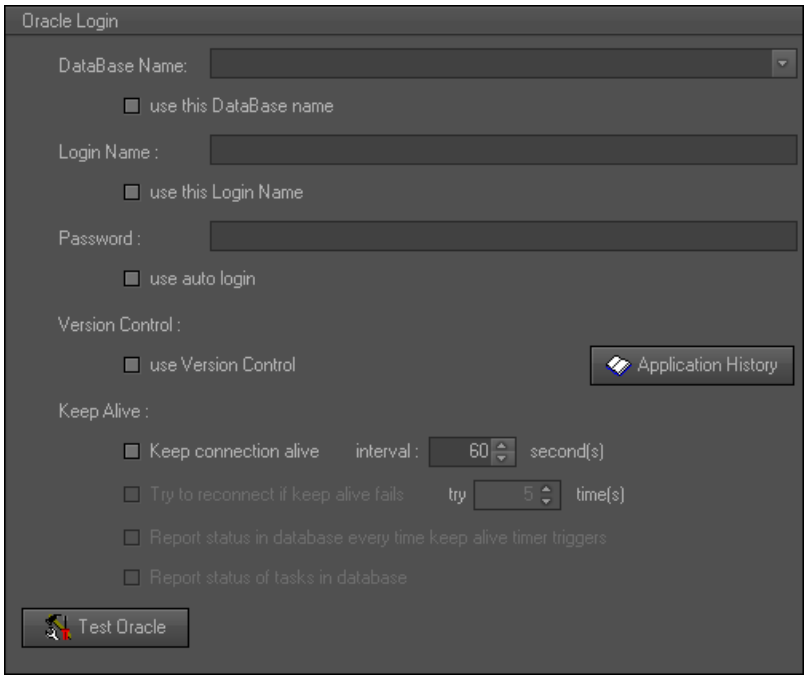
You can also specify a time interval (in days) after which the logs should be removed from the log storage directory. If you enter '-1', the logs are never removed from the storage directory. By default, the logs are cleaned up after 90 days.

Configuring the LogMemo Size

In the LogMemo group box you can specify the maximum number of lines retained by the Log pane. By default, the Log pane displays 256 lines.

4.3.3. Oracle Connection Tab

The Oracle Connection tab allows you to configure the connection with the Oracle database.



Entering the Database Name

In this field you have to enter the name of the database the application has to connect to.

If the **Use This Database Name** check box is selected, the name of the database will automatically appear in the Oracle login dialog box at start-up.

Entering the Login Name

In this field you have to enter a login name. If the **Use This Login Name** check box is selected, the login name will automatically appear in the Oracle login dialog box at start-up.

Entering a Password

In this field you have to enter a password. If the **Use Auto Login** check box is selected, the application automatically logs into the selected database at start-up. The Oracle login dialog box does not appear.

Activating Version Control

If the **Use Version Control** check box is selected, the software version of the application is checked each time it logs into the database. This check box should always be selected!!

If the software version is outdated, the following warning message appears in the splash screen highlighted in red: 'Obsolete – A newer version exists. May not be used anymore.'

Click the **OK** button to close the splash screen and update your software version.

By clicking the **Application History** button, you can open a chronological list of all software versions of the application. To get more details about each version (creation date, name of programmer, status, additional remarks), you have to click **+** next to the version number.

Activating Keep Alive

If the option **Keep Connection Alive** is selected, a message is sent to the database at regular time intervals to avoid idle connections from being closed by the firewall. These intervals can be set by you.

If the option **Try to Reconnect if Keep Alive Fails** is selected, the application will try a number of times to reconnect with the database.

If the option **Report Status in Database Everytime Keep Alive Timer Triggers** is selected, the status of the connection is reported in the database each time the Keep Alive Timer sends a trigger to send a Keep Connection Alive message.

If the option **Report Status of Tasks** is selected, the status of the tasks (ok or not ok) is reported to the database.

Testing the Oracle Connection

The **Test Oracle** button allows you to check the validity of the database name, login and username you entered.

If these data are valid, then the following message appears next to the **Test Oracle** button: 'OK'.

If the login name or password is invalid, then a message box appears with the following message: 'ORA-01017: invalid username/password; logon denied'.

If the database name is invalid, then a message box appears with the following message: 'ORA-12154:TNS: could not resolve the connect identifier specified'.

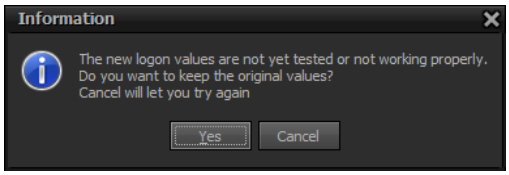
If you omit the password, then a message box appears with the following message: 'ORA-01005: null password given; logon denied'.

If you don't enter a database name, login and username, then a message box appears with the following message: 'ORA-12560: TNS: protocol adapter error'.

If the **Use Version Control** check box is selected, you can also check the software version of the application by clicking the **Test Oracle** button. If the software version is up-

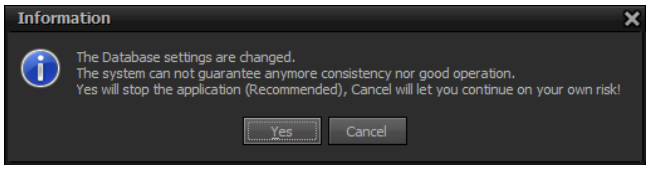
to-date, then the following message appears: 'Actual – The Actual Version'. If the software version is outdated, then the following message appears: 'Unknown Version Application! Please contact the EDP department.'

If you close the Settings window without testing the validity of the database name, login and username you just entered, then a message box appears.


Information
The new logon values are not yet tested or not working properly.
Do you want to keep the original values?
Cancel will let you try again
Yes
Cancel

If you click **Yes**, then the Settings window is closed and the original values are restored. If you click **Cancel**, then the Settings window doesn't close and you can test the values by clicking the **Test Oracle** button.

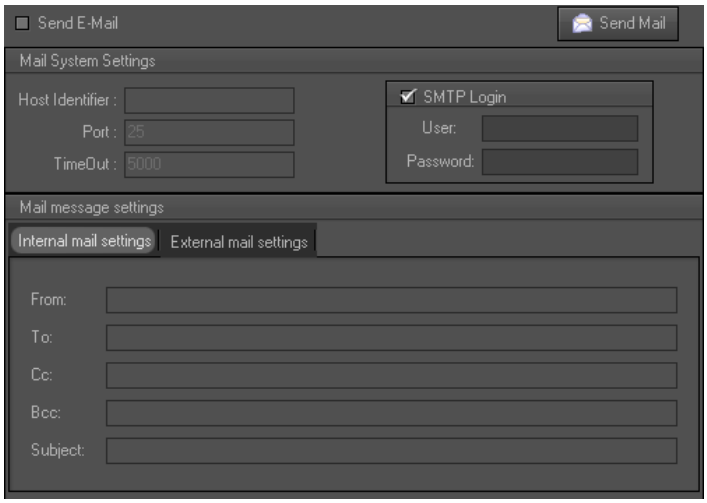
If you change the current database settings, test the connection and then close the Settings window, a message box will appear.


Information
The Database settings are changed.
The system can not guarantee anymore consistency nor good operation.
Yes will stop the application (Recommended), Cancel will let you continue on your own risk!
Yes
Cancel

If you click **Yes**, the application is stopped and closed. A manual restart will be required. Click **Cancel** to continue.

4.3.4. E-Mail Options Tab

In case the application is capable of sending e-mail messages, the E-Mail Options tab will allow you to configure an e-mail account, enter the e-mail address of the default sender and recipients, and enter a default e-mail subject. If the application is not capable of sending e-mail messages, the settings in this tab cannot be used.



To be able to configure the e-mail account, you have to select the **Send E-Mail** check box. The fields in the Mail System Settings and Mail Message Settings group box become available.

Configuring an E-Mail Account

In the Mail System Settings group box you have to enter the IP address and port number of the SMTP server and specify a timeout. In the SMTP Login group box you can enter a user name and password.

Configuring a Default E-Mail Message

The Mail Message Settings group box contains two tabs: Internal Mail Settings and External Mail Settings.

The Internal Mail Settings tab can be used to configure a default e-mail message that will be sent to the EVS developers and the customer when an error occurs.

The External Mail Settings tab can be used to configure a default e-mail message that will be sent to the customer to notify him about an error. In each tab you have to enter the sender's email address, the email address of the various recipients and a subject. It should be noted that this tab is not always used.

When you insert multiple e-mail addresses in any of the header fields, make sure you separate them by a comma.

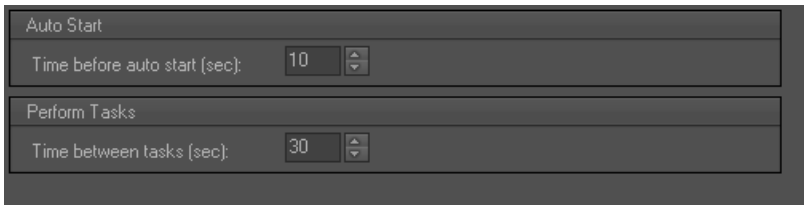
To test the settings and manually send an e-mail message, click the **Send Mail** button.

For the new settings to take effect, close and restart the application. Check the TOM.ini file in the installation folder of the application for the e-mail addresses and subject entered here.

```
[General]
TemporaryFiles.Text=edtTemporaryFilesDir
EmailWanted.Checked=0
Port.Text=25
HostID.Text=
TimeOut.Text=5000
SMTPLogin.Checked=1
MailUser.Text=
MailPasswd.Text=y1cWaD8bS1hdK17uHq8knw==
MailPasswdUnicode.Text=79CJGqDro/FCD6AsFhtZkw==
MailFrom.Text=
MailTo.Text=
MailCc.Text=
MailBcc.Text=
MailSubject.Text=
ExternMailFrom.Text=
ExternMailTo.Text=
ExternMailCc.Text=
ExternMailBcc.Text=
ExternMailSubject.Text=
cbSaveScreenDumpUnHandledErrors.Checked=1
cbSaveUnforcedErrors.Checked=1
cbSaveScreenDumphandledErrors.Checked=1
cbAutomaticLogin.Checked=0
cbUseknownDatabase.Checked=0
cbUseThisLogin.Checked=0
chkKeepConnectionAlive.Checked=0
chkTryToReconnect.Checked=0
```

4.3.5. Timers Tab

The Timers tab allows you to set time intervals for some automated tasks.



Configuring Auto-Start

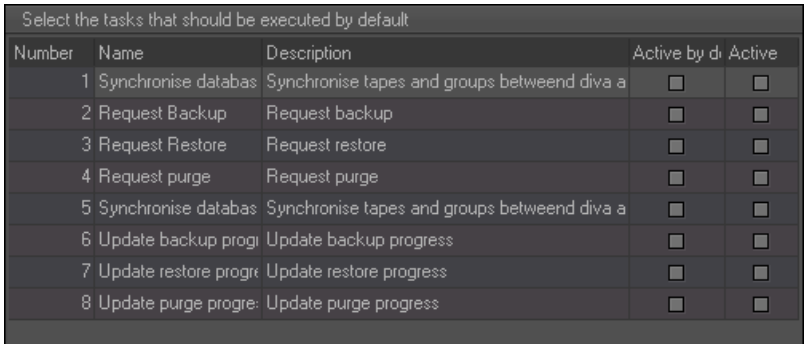
In the Auto Start group box you can specify the time interval after which the application automatically starts performing its tasks. By default, this is set to 10 seconds.

Setting a Time Interval Between Tasks

In the Perform Tasks group box you can specify the length of the time interval (in seconds) between two subsequent tasks. By default, this is set to 30 seconds.

4.3.6. Tasks Tab

The Tasks tab gives an overview of the active tasks.


Select the tasks that should be executed by default
Number
Name
Description
Active by d
Active
1 Synchronise databas Synchronise tapes and groups betweend diva a
2 Request Backup Request backup
3 Request Restore Request restore
4 Request purge Request purge
5 Synchronise databas Synchronise tapes and groups betweend diva a
6 Update backup progi Update backup progress
7 Update restore progr Update restore progress
8 Update purge progre: Update purge progress

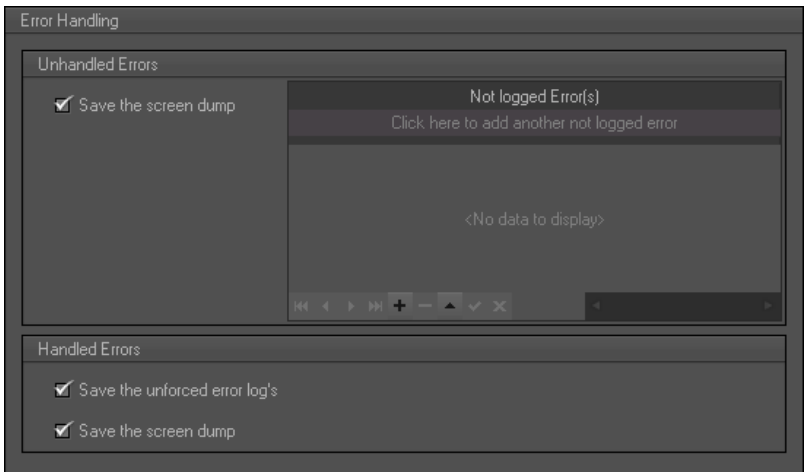
In the **Active by Default** column you can activate the tasks that must be performed by default at start-up. The **Active** column displays the tasks that are currently selected in the main window.

4.3.7. Global Password Tab

The Global Password tab allows you to set a password that the superuser(s) has/have to enter to be able to edit the Global settings of the application, if any. To apply the password, you have to click the **Apply** button.

4.3.8. Error Handling Tab

The Error Handling tab is used to configure the error handling by the application. This tab will only be used by the EVS administrator.



Handling Unhandled Errors

If the **Save the Screen Dump** check box is selected, a screenshot is taken of an unhandled error message and stored in the database and in a folder on the computer where the application is installed. In the Not Logged Error(s) panel, errors can be typed for which no log was created. By default, this check box is selected.

Handling Handled Errors

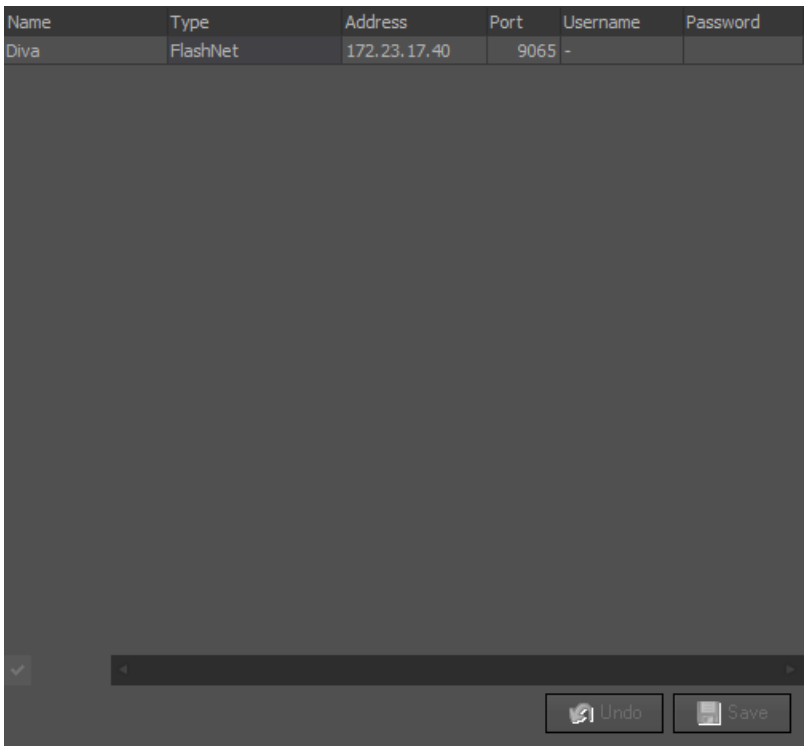
If the **Save the Unforced Error Log's** check box is selected, the log of the error is saved in the database and in a folder on the computer where the application is installed. By default, this check box is selected.

If the **Save the Screendump** check box is selected, a screenshot is taken of the error message and stored in the database and saved in the same folder as where the error log is kept. By default, this check box is selected.

4.3.9. HSMs Tab

The HSMs tab contains the settings that configure the communication between Tape Storage Controller and the hierarchical storage management system (HSM). The data entered here will automatically appear in the tab in the System settings that corresponds to the selected hierarchical storage management system.

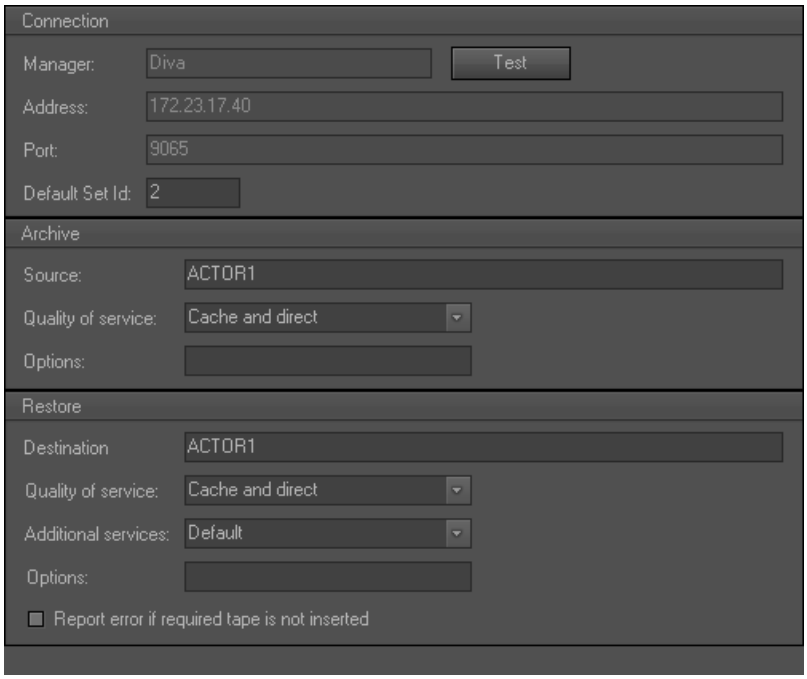
The data is read-only and can only be modified in the Configurator application.



If a particular HSM is selected, the corresponding tab with settings specific to that HSM will become available.

4.3.10. DIVA Tab

The DIVA tab contains the settings that configure the connection between Tape Storage Controller and the DIVArchive system and also those that configure the archive and restore process performed by the DIVArchive. This tab only becomes available if DIVA has been selected as HSM type in the HSMs tab. See section "HSMs Tab" on page 19.



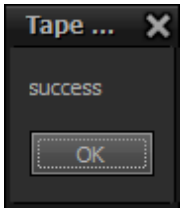
Configuration Connection With DIVA

The Connection group box contains the following connection data:

- **Manager**: Name of the DIVArchive Manager. The DIVArchive Manager is the main component in a DIVArchive system. All archive operations are controlled and handled by the DIVArchive Manager.
- **Address**: IP Address of the management station running the DIVArchive Manager software component.
- **Port**: Listening port number of the DIVArchive Manager management station.
- **Default Set ID**: The tapes in the library are initially divided into sets, and are assigned a number called a Set ID. Set ID's allow to partition pools of tapes in a library and assign them for use with specific DIVArchive groups.

This data is read-only and can only be modified in Configurator.

A **Test** button allows you to test the connection with the DIVArchive. If the connection is ok, the message 'Success' will appear.



Otherwise, an error message will appear.

Configuring the Archive Process

The Archive group box contains settings used to configure the archive process performed by the DIVArchive system.

The **Source** field contains the name of the system that has content intended to be transferred to DIVArchive, i.e. the nearline storage. This name is pre-defined in the DIVArchive source configuration.

The Quality of Service (QOS) parameter defines how a file is to be transferred to a DIVArchive tape.

The options for QOS are defined as follows:

- **Direct Only**: The material is written to tape immediately as it is being transferred from a destination. If no direct transfer service is available, the request will be aborted.
- **Cache Only**: The material is first transferred entirely from the source to cache storage, and then written to tape. If no cache service is available, the request will be aborted.
- **Direct and Cache**: If a direct transfer is not available (e.g. no Actor with direct transfer enabled is available), then cache transfer will be used instead.
- **Cache and Direct**: If cache transfer is not available (e.g. no Actor with cache storage is available), a direct transfer will be performed instead.
- **Default**: The QOS specified in the source configuration will be used.

By default, the option **Cache and Direct** is selected.

The **Options** field contains additional options that must be used for performing the transfer of data from the source to DIVA. These options supersede any options specified in the DIVA configuration database. Currently the possible values are:

- a null string to specify no options
- **-r**: Specifies that every name in filenamesList that refers to a directory must be scanned recursively. This also applies when a file path root is specified and '*' is used to designate the file(s) to be archived. This option may be used when archiving from a local source or from a standard FTP server.
- **-login**: Login used for some sources.
- **-pass**: Password in conjunction with the –login option for some sources.

Configuring the Restore Process

The Restore group box contains settings used to configure the restore process performed by the DIVArchive system.

The **Destination** field contains the name of the system that requires content to be transferred to it from DIVArchive. This name is pre-defined in the DIVArchive destination configuration.

The Quality of Service (QOS) parameter defines how a file is to be transferred from a DIVArchive tape to a destination.

The options for QOS are defined as follows:

- **Direct Only**: The material is transferred immediately to the source as it is being read. If no direct transfer service is available, the request will be aborted.
- **Cache Only**: The material is first transferred entirely to cache storage from tape, and then transferred to the destination. If no cache service is available, the request will be aborted.
- **Direct and Cache**: If a direct transfer is not available (e.g. no Actor with direct transfer enabled is available), then cache transfer will be used instead.
- **Cache and Direct**: If cache transfer is not available (e.g. no Actor with cache storage is available), a direct transfer will be performed instead.
- **Default**: The QOS specified in the destinations configuration will be used.

The following additional services are available:

- **Default**: Operate as per default setting in the Manager configuration;
- **Do Not Overwrite**: Do not overwrite existing files on the destination server.
- **Do Not Check Existence**: Do not check the existence of the clip on the server.
- **Delete and Write**: Force delete and rewrite if object exists on server.

The **Options** field contains additional options that must be used for performing the transfer of data from DIVA to the destination. These options supersede any options specified in the DIVA configuration database. Currently the possible values are:

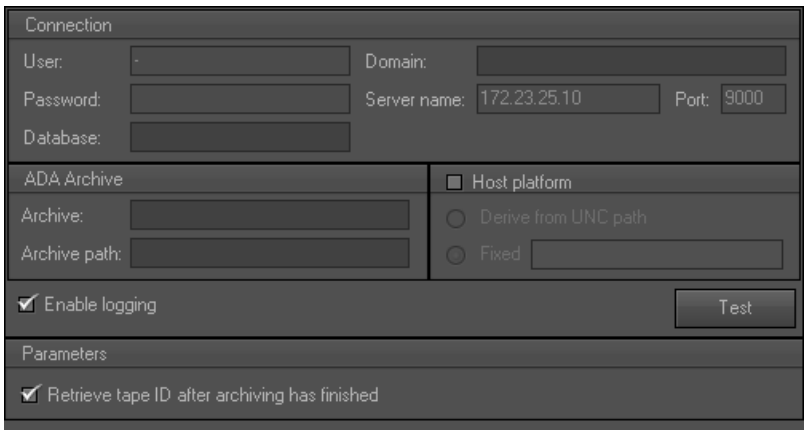
- a null string to specify no options.
- **-login**: Login used for some sources.
- **-pass**: Password in conjunction with the –login option for some sources.

NEW ! If the setting **Report Error If Required Tape Is Not Inserted** is selected and a request is made to restore a file that is stored on a LTO tape that is not inserted in the tape library, Tape Storage Controller will display the following error: 'The tape for <FILENAME> is not inserted in the tape robot. Please insert tape <TAPE_ID>.' The corresponding clip will go into error in Deep Archive Manager and the same error message will appear in Deep Archive Manager. The user can retry restoring the file after the required tape has been inserted. If the setting is not selected, no error will be reported if an LTO tape is not inserted.

4.3.11. ADA Tab

The ADA tab contains the settings that configure the communication with the Atempo Digital Archive (ADA) system. This tab only becomes available if ADA is selected as HSM type in the HSMs tab. See section "HSMs Tab" on page 19.

These settings are read-only. They can only be modified in the Configurator application.



Configuration Connection With ADA

In the Connection group box the following data is automatically entered:

- **User**: Name of the user as defined in Atempo Digital Archive.
- **Domain**: Windows domain name.
- **Password**: Password necessary to log into Atempo Digital Archive.
- Server Name: Name of the Atempo Digital Archive Server to which Tape Storage Controller will connect. You have to use the machine name.
- **Port**: Number of the port the Atempo Digital Archive Server will listen for requests. It is port number 80 by default.
- **Database**: Database instance used for Atempo Digital Archive. It is called ADA by default.

Specification of the ADA Archive

In the ADA Archive group box the following data is automatically entered:

- **Archive**: Name of the project archive created in Atempo Digital Archive. A project archive is shared and can be accessed by several users defined by the Administrator.
- **Path**: Folder of the project archive which mirrors the location of the data on the source platform. This folder has a path of the structure: <source_machine>\<source_machine_OS>\root_path_on_source>.

Specification of the Host Platform

NEW ! A host platform is an archiving platform where the source data to be archived is located. Depending on the setup, the settings in the Host Platform group box will be enabled or not. The host platform name, i.e. the network name of the machine hosting the data, can either be derived from the UNC path of the storage or this can be a fixed name. The first option is used when there are multiple storages, the second option is used when there is only one storage.

Enable Logging

If the option **Enable Logging**is selected, an extensive log will be kept of the communication between Tape Storage Controller and the Atempo Digital Archive Server. Click the **Test** button to test this option. By default, this option is selected.

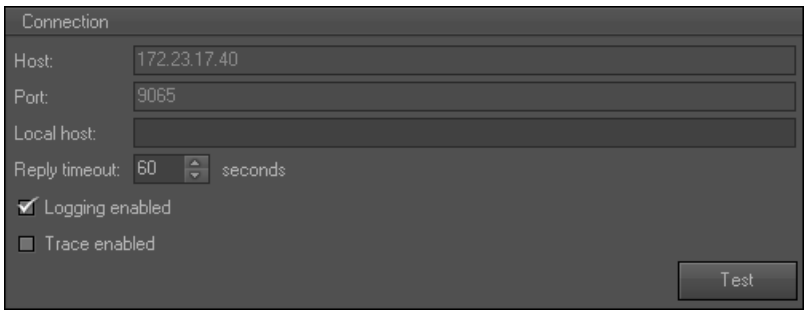
Enable Retrieval of LTO Tape ID

If the option **Retrieve Tape ID After Archiving Has Finished**, Tape Storage Controller will retrieve from the ADA database the ID of the LTO tape which contain the archived files. By default, this option is selected.

4.3.12. FlashNet Tab

NEW ! The FlashNet tab contains the settings that configure the communication with the FlashNet system. This tab only becomes available if FlashNet is selected as HSM type in the HSMs tab. See section "HSMs Tab" on page 19.

Most of the settings in this tab are read-only. They can only be configured in the Configurator application.



The following connection data is entered:

- **Host** : The IP address or machine name of the FlashNet server.
- **Port**: The listening port number of the FlashNet server. The default port number is 8199.
- **Local Host**: The IP address or machine name of the server that hosts Tape Storage Controller. This field can still be configured locally.

The **Reply Timeout** field displays how long (expressed in seconds) Tape Storage Controller will wait for the FlashNet server to respond after making connection before giving an error . By default, this is set to 60 seconds.

If the **Logging Enabled** check box is selected, extra logs related to FlashNet will be added to the application log files. By default, this option is selected.

If the **Trace Enabled** check box is selected, the XML communication between Tape Storage Controller and FlashNet is added to the log files. By default, this option is not selected.

The **Test** button can be used to test the connection with the FlashNet server.

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